Mandelbrot Metal
Beta Tester's Guide

Thank you for joining the Mandelbrot Metal beta program!
Your feedback is essential to help us polish the app and ensure it performs reliably across different devices and usage scenarios.
This guide outlines what to test, how to report issues, and the areas we'd like you to focus on.

■ Key Testing Areas

1. Navigation & Zooming
– Test pinch-to-zoom and pan gestures at shallow and deep zoom levels.
– Check whether the image fills the screen without stretching or leaving borders.
– Report if the zoom becomes pixelated, blurry, or unstable.

2. Iteration Controls
– Use the Iteration slider in both manual and auto modes.
– Confirm that changes update the image smoothly and persist correctly.
– Check whether the Max Iteration Cap is applied consistently.

3. Rendering Performance
– Compare GPU vs CPU rendering where possible.
– Note responsiveness (lag, freezes, or long render times).
– Report high energy usage (Settings → Battery → Mandelbrot Metal).

4. Palettes & Colors
– Switch between palettes (including your favorites).
– Import custom gradients or photos.
– Confirm that colors match expectations, especially in HDR mode.

5. Capture & Export
– Try screenshot capture at various resolutions (Canvas, 4K, 6K, 8K, Custom).
– Verify that images save correctly to Photos and appear sharp.
– Check aspect ratio is preserved.

6. HUD & Overlays
– Toggle HUD elements (iterations, precision, palette info).
– Verify alignment in both portrait and landscape orientations.
– Confirm overlays adapt properly on different devices (iPhone mini, iPad Pro, etc.).

7. Bookmarks & Favorites
– Save, load, and delete bookmarks at different zoom levels.

– Mark palettes as favorites and ensure they appear in the correct list.
– Confirm persistence after relaunching the app.

8. Launch & Transitions
– Check the LaunchFlow animation (fade in/out, aspect ratio, no screen flicker).
– Report if the canvas requires a manual tap to redraw or resizes unexpectedly.

■ Reporting Issues

When you find a bug or unexpected behavior, please include:
– **Device & OS version** (e.g., iPhone 14 Pro, iOS 18.1).
– **App version** (from Settings → About).
– **Steps to reproduce** (what you tapped, swiped, or changed).
– **Expected vs actual behavior**.
– **Screenshots or screen recordings** if possible.

Submit feedback via:
– TestFlight's built-in "Send Feedback" option, or
– Email: *support@mandelbrot-metal.com*

■ What Success Looks Like

– Smooth zooming and rendering across all supported devices.
– Iteration caps and auto iterations feel accurate and consistent.
– Captures produce sharp, correctly scaled images.
– HUD and overlays always align properly.
– Bookmarks and palettes save and restore reliably.

■ Thank You!

Your testing helps us refine Mandelbrot Metal into a world-class fractal explorer.
Please explore freely, but pay special attention to the focus areas above.
Even small details matter!